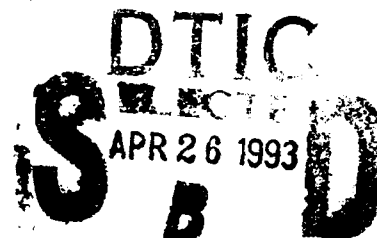AD-A263 356

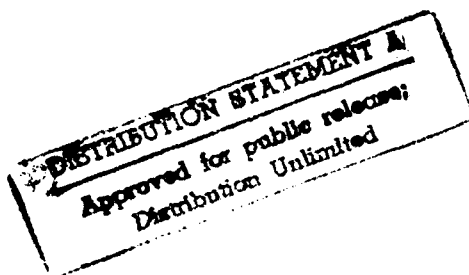# Department of Defense

## DoD Electronic Data Interchange (EDI) Convention

ASC X12 Transaction Set 810
Invoice (Commercial)
(Version 003010)

Executive Agent for EC/EDI/PLUS
Defense Logistics Agency
Cameron Station
Alexandria, VA 22304-6100

93-08751

# 10.0 DoD EDI CONVENTION

## ASC X12 TRANSACTION SET 810 INVOICE (COMMERCIAL)    (VERSION 003010)

**FORMATTING INVOICE INFORMATION FOR THE DoD PAYMENT SYSTEM USING THE ASC X12 TRANSACTION SET 810 INVOICE (COMMERCIAL).**

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# Contents

FORMATTING INVOICE INFORMATION FOR THE DoD PAY-
MENT SYSTEM USING THE ASC X12 TRANSACTION SET 810
INVOICE (COMMERCIAL).

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# 10.i INTRODUCTION

This is an Electronic Data Interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) will use to accept an invoice using the ASC X12 Transaction Set 810 Invoice (003010). It contains information for the design of interface computer programs that serve to link systems application computer programs and an EDI translator computer program.

## Who Needs to Use This Document

Computer programmers can use this document to identify the data in a populated EDI transaction with data requirements of their specific application database. Conversely, programmers can identify where their applications data requirement should be carried in an EDI transaction.

## Why Use a Convention

There are more ways to populate an EDI transaction than there are ways to fill out a blank form. A convention defines the rules for filling in or "populating" an EDI transaction with a specific data set. Following a convention ensures the integrity of data that is produced and processed by EDI capable computer systems.

## Contents

Four sections are included in this document.

- Section 10.2, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments when sending and receiving EDI transactions.

- Section 10.5, Data Element Cross-Reference Matrix, lists the data requirements of DoD and specifies where each data element should be carried in the transaction set. This section can be used to map an existing application database into the transaction set.

- Section 10.7, DoD Conventions, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the cross-reference data element from Section 10.5. This section can be used to interpret segments and data elements of a populated transaction set.

- Appendices contain examples of populated transaction sets, trading partner data element matrix, and other items that serve as references for software developers.

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# 10.2 Control Segments

## Overview

This chapter describes the Electronic Data Interchange (EDI) control segments (interchange control segments and functional group segments). The control segment information was derived from the ASC X12 Standards Draft Version 3 Release 1 (003010).

## Purpose

This chapter identifies specific data requirement for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments is usually managed by EDI translation software. The data requirement described herein should be used to set control segment format when installing or initializing translation software for transmission and reception of EDI transaction.

## Contents

Two items are included in this chapter.

- Table 10.2-1, Interchange Control Segment Hierarchy describes the control segments in their order of occurrence in au EDI communications interchange.

- Table 10.2-2, DoD Convention ASC X12 Control Segments is a detailed description of the Department of Defense data conventions for formatting EDI standard control segments. All segments identified in Table 10.2-1 are broken down and described by their discrete data elements.

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# TABLE 10.2-1

### Control Segment Hierarchy

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## Interchange Control Envelope
## Control Segments

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| USE | 10 | ISA | Interchange Control Header | M | 1 | |
| USE | 20 | GS | Functional Group Header | M | 1 | |

• 

• Grouped Transactions

• 

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| USE | 30 | GE | Functional Group Trailer | M | 1 | |
| USE | 40 | IEA | Interchange Control Trailer | M | 1 | |

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# TABLE 10.2-2

DoD Convention

ASC X12 Control Segments

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| Segment: | **ISA** | Interchange Control Header |
| Usage: | **M** | |
| Purpose: | | To start and identify an interchange of one or more functional groups and interchange-related control segments. The actual values of the data element separator and the segment terminator for this interchange are set by the interchange control header. For a particular interchange, the value at the fourth character position is the data element separator, and the value of the last character position is the value of the segment terminator. |
| Note: | | The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer. |

## Data Element Summary

**Authorization Qualifier**
**[001  ]**

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| ISA01 | I01 | Authorization Information Qualifier | M ID 2/2 |

Code to identify the type of information in the Authorization Information.

| Code | Definition |
|---|---|
| 00 | No Authorization Information Present |

**Authorization Info**
**[002  ]**

If no authorization information is agreed to by trading partners, fill field with blanks.

| ISA02 | I02 | Authorization Information | M AN 10/10 |
|---|---|---|---|

Information used for additional identification or authorization of the sender or the data in the interchange.

| ISA03 | I03 | Security Information Qualifier | M ID 2/2 |
|---|---|---|---|

Code to identify the type of information in the security information.

| | | | |
|---|---|---|---|
| Security Qualifier [003 ] | | **Code Definition** | |
| | | 00 No security information present. | |
| | **ISA04** **I04** | **Security Information** | **M AN 10/10** |
| | | This is used for identifying the security information about the sender or the data in the interchange. | |
| Security Info [004 ] | | | |
| If no security information is agreed to by trading partners, fill field with blanks. | | | |
| | **ISA05** **I05** | **Interchange Id Qualifier** | **M ID 2/2** |
| | | Qualifier to designate the system/method of code structure used to designate the sender ID element being qualified. | |
| Sender Qualifier [005 ] | | | |
| Use authorized X12 code list. | | | |
| | **ISA06** **I06** | **Interchange Sender's Id** | **M ID 15/15** |
| | | Identification code published by the sender for other parties to use as the receiver ID to route data to them. | |
| Sender Id [006 ] | | | |
| DoD activities use Department of Defense Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN). Non-DoD activities use identification code qualified by ISA05 and coordinated with the VAN. | | | |
| | **ISA07** **I05** | **Interchange Id Qualifier** | **M ID 2/2** |
| | | Code to identify the type of information in the Authorization Information. | |
| Interchange Qualifier [007 ] | | | |
| Use authorized X12 code list. | | | |

**Receiver Id**
**[008 ]**

DoD activities use Department of Defense Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN). Non-DoD activities use identification code qualified by ISA05 and coordinated with the VAN.

**Date**
**[009 ]**

Assigned by translation software.

**Time**
**[010 ]**

Assigned by translation software.

**Standards Id**
**[011 ]**

**Version Id**
**[012 ]**

Version ID as defined or agreed upon by the trading partners.

| ISA08 | I07 | Interchange Receiver's Id | M | ID | 15/15 |
|---|---|---|---|---|---|

Identification code published by the receiver of the data.

| ISA09 | I08 | Interchange Date | M | DT | 6/6 |
|---|---|---|---|---|---|

Date of the interchange.

| ISA10 | I09 | Interchange Time | M | TM | 4/4 |
|---|---|---|---|---|---|

Time of the interchange.

| ISA11 | I10 | Interchange Control Standard Identifier | M | ID | 1/1 |
|---|---|---|---|---|---|

Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.

| ISA12 | I11 | Interchange Control Version | M | ID | 5/5 |
|---|---|---|---|---|---|

This version number covers the interchange control segments and the functional group control segments.

| Code | Definition |
|---|---|
| 03010 | Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1990 |

Interchange Control Number
[013  ]

Assigned by translation software.

**ISA13**  **I12**  **Interchange Control Number**  **M  NO  9/9**

This number uniquely identifies the interchange
data to the sender.

Acknowledgment Request
[014  ]

Code value agreed upon by trading
partners.

**ISA14**  **I13**  **Acknowledgment Requested**  **M  ID  1/1**

Code sent by the sender to request an interchange
acknowledgement.

| Code | Definition |
|------|------------|
| 0 | No Acknowledgment Requested |
| 1 | Interchange Acknowledgement Requested |

Test Indicator
[015  ]

Code value agreed upon by trading
parters.

**ISA15**  **I14**  **Test Indicator**  **M  ID  1/1**

Code to indicate whether data enclosed by this inter-
change envelope is test or production.

| Code | Definition |
|------|------------|
| P | Production Data |
| T | Test Data |

Subelement Separator
[016  ]

Use ASCII character 58, colon ':'.

**ISA16**  **I15**  **Subelement Separator**  **M  AN  1/1**

This is a field reserved for future expansion in
separating data element subgroups.

Segment: **GS**     Functional Group Header

Usage: **M**

Purpose: To indicate the beginning of a functional group and to provide control information

Comment: A. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Syntax Notes: 01 The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| GS01 | 479 | Functional Id Code | M ID 2/2 |

Code identifying a group of application related Transaction Sets.

| Code | Definition |
|---|---|
| IN | 810 - Invoice Information |

**Functional Id**
**[020 ]**

Choose the code value appropriate to the information content of the functional group. See X12 Dictionary for source code list.

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| GS02 | 142 | Application Sender's Code | M ID 2/12 |

Code identifying party sending transmission. Codes agreed to by trading partners.

**Sender's Code**
**[021]**

DoD activities use Department of Defense Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA06.

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| GS03 | 124 | Application Receiver's Code | M ID 2/12 |

Code identifying party receiving transmission. Codes

agreed to by trading partners.

**Receiver's Code**
**[022]**

DoD activities use Department of Defense Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA08.

| GS04 | 29 | Group Date | M | DT | 6/6 |

Date sender generated a functional group of transaction sets.

**Date**
**[023]**

Assigned by translation software.

| GS05 | 30 | Group Time | M | TM | 4/4 |

Time (HHMM) when the sender generated a functional group of transaction sets (local time at sender's location).

**Time**
**[024 ]**

Assigned by translation software.

| GS06 | 28 | Group Control Number | M | N0 | 1/9 |

Assigned number originated and maintained by the sender.

**Group Control Number**
**[025 ]**

Assigned by translation software.

| GS07 | 455 | Responsible Agency Code | M | ID | 1/2 |

Code used in conjunction with Data Element 480 to identify the issuer of the standard.

**Agency Code**
**[026 ]**

Indicates that an ANSI X12 standard is being transmitted.

| Code | Definition |
|------|------------|
| X | Accredited Standards Committee X12 |

| GS08 | 480 | Version/Release/Industry Id |

M   ID   1/12

**Code**
Code indicating the version, release, subrelease and
industry identifier of the EDI standard being used.
(See X12 Dictionary)

**Version/Release**
**[027  ]**

Code value agreed to by trading
partners. See X12 Dictionary for
source code list.

| Code | Definition |
|------|------------|
| 003010 | Draft Standards Approved By ASC X12 Through June 1990 |

Segment: **GE** Functional Group Trailer

Usage: **M**

Purpose: To indicate the end of a functional group and to provide control information

Comment: A. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Syntax Notes: 01 The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|-----------|--------------|------|------------|
| GE01 | 97 | Number of Included Sets | M NO 1/6 |

Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.

**Number of Segments**
**[028  ]**

Assigned by the translation software.

| | | | |
|-----------|--------------|------|------------|
| GE02 | 28 | Group Control Number | M NO 1/9 |

Assigned number originated and maintained by the sender.

**Group Control Number**
**[029  ]**

Assigned by the translation software. This control number must match the control number of the preceding GS06 control number.

Segment: **IEA**    Interchange Control Trailer

Usage: **M**

Pupose: To define the end of an interchange of one or more functioral groups and interchange related control segments.

Note: The interchange control number in this trailer must match the value in the same data element in the corresponding interchange header.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|-----------|--------------|------|------------|---|---|
| IEA01 | I16 | **Number of Included Functional Groups**<br>A count of the number of functional groups included in a transmission. | M | NO | 1/5 |
| IEA02 | I12 | **Interchange Control Number**<br>This number uniquely identifies the interchange data to the sender. | M | NO | 9/9 |

**Functional Group Count**
**[040  ]**

Assigned by translation software.

**Interchange Control Number**
**[041  ]**

Assigned by translation software. This number must match the number that occurs in ISA13.

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# 10.5 DATA ELEMENT CROSS-REFERENCE MATRIX

## Overview

This chapter lists the data element cross-reference between the Department of Defense (DoD) ASC X12 Transaction Set 810 Invoice (003010). We derived the cross-reference from the following:

- Examination of DoD invoice information data requirements.

- Analysis of ASC X12 Transaction Set 810 Invoice.

- Comments submitted by DoD activities involved in the DoD electronic data interchange effort.

## Purpose

This chapter identifies specific data in an application and their corresponding EDI mapping into the Transaction Set 810. Data elements from an existing application database can be identified with elements in this cross-reference. If no application exists, the cross-reference provides enough information to develop a database design to automate the application. With an application in place, this cross-reference will expedite mapping of the database into a commercial EDI translation package. All trading partners who plan to exchange the 810 with DoD can use this document as a reference for the development of their database/EDI translator interface program.

## Contents

One table is included in this chapter. Table 10.5-1, Data Element Cross-Reference lists all the discrete data elements of the DoD invoice data requirements and their corresponding segment and data element of the ASC X12 Transaction Set 810 Invoice.

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# TABLE 10.5-1

## DATA ELEMENT CROSS-REFERENCE

### DoD Invoice Data Using ASC X12 Transaction Set 810 Invoice.

## How To Read This Table

Table 10.5-1 cross-references discrete DoD invoice data requirements to the corresponding segment and data elements of the Transaction Set 810. The following definitions explain how table 10.5-1 is organized. Understanding the information in this table requires familiarity with EDI standards.

## Government References

The first three columns on the left in Table 10.5-1 identify the specific invoice data element.

- INVOICE DATA NAME: Lists individual data elements required to send an invoice. The user should identify these elements with a data name in their internal database system.

- INDEX: Three entries may appear in this column and represent various levels of indexing used to sort the data names in a data dictionary.

- Q: An asterisk (*) in this column identifies the data as a qualifier code.

## EDI References

The remaining seven columns identify the detailed mapping of each data name into Transaction Set 810. Using these references is explained below in "How To Use This Table".

- AREA: The area of the transaction set where the data is mapped. A = header, B = detail, C = summary.

- POS: The sequential position of a specific segment within the area of the transaction set.

- REF DES: The first two or three alphanumeric characters identify a transaction set segment; the last two numeric characters in the column identify a data element position in the segment.

- DE #: The EDI data element number that appears at that position in the segment.

- VALUE: The recommended code value(s) that should be used.

- DoD CONVENTIONS: Additional information about the data as they apply to Department of Defense use.

## How To Use This Table

This table maps a data element to a specific data element in an EDI transaction set.

1. Select any data element from the INVOICE DATA NAME list,

2. Identify the AREA, POS, and REF DES for that DATA NAME,

3. Go to Table 10.7-2 DoD Segment Hierarchy,

4. Find the AREA (Table A = header, etc.) in the hierarchy,

5. Locate the segment that corresponds to the POS and the REF DES. NOTE: The POS may not appear in some hierarchy tables. In this case, use the segment id identified by the first 2-3 characters in the REF DES,

6. In the left-hand column, identify the page number of the segment Id,

7. Turn to that page number in Table 10.7-3,

8. Now in the convention table 10.7-3, find the REF DES from step, 2 under the Ref. Des. column on the right hand side of the page,

9. You have now mapped a data element from table 10.5-1 into the convention table 10.7-3.

The INVOICE DATA NAME from Table 10.5-1 appears in the right hand column along with its INDEX and the DoD CONVENTION. The EDI standard definition of the data element appears in the right hand column of the page.

Each INVOICE DATA NAME from Table 10.5-1 can be mapped into the transaction set in this manner.

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| TENDER DATA NAME | INDEX | Q | A | POS | REF DES | DE # | VALUE | DoD CONVENTION | DoD ReqDes |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | The following comments provide mapping instructions or establishing a Commercial Invoice. | |
| Transaction Set Identifier Code | [001 A ] | * | 1 | 10 | ST01 | 143 | 810 - X12.2 Invoice | | |
| Transaction Set Control Number | [002 A ] | | 1 | 10 | ST02 | 329 | | Control No, (same number will be found in SE02 in Summary). | |
| Invoice Date | [003 A ] | | 1 | 20 | BIG01 | 245 | | Invoice Date, expressed as YYMMDD. | |
| Invoice Number | [004 A ] | | 1 | 20 | BIG02 | 76 | | A unique number assigned by the Billing Party. | |
| Purchase Order Number | [005 A ] | | 1 | 20 | BIG04 | 324 | | Procurement Instrument Identification Number, (PIIN). | |
| Release Number | [006 A ] | | 1 | 20 | BIG05 | 328 | | Call/order number. | |
| Change Order Sequence Number | [007 A ] | | 1 | 20 | BIG06 | 327 | | Modification Number, (SPIIN). | |
| Transaction Type Code | [008 A ] | * | 1 | 20 | BIG07 | 640 | CN - Credit Invoice<br>CO - Corrected<br>DI - Debit Invoice<br>RE - Rebill | Use code RE for a selling party generated request to withdraw, without processing, a previously submitted invoice. | |

**Reference Number Qualifier** [009 A] * 1 50 REF01 128

- BL : Government Bill of Lading
- BM : Bill of Lading Number
- SI : Shipper's Identifying Number for Shipment
- VR : Vendor ID number
- ZZ : Mutually Defined

NOTE: A. Use code SI for Shipment Number and code ZZ for the Indicator when applicable to the entire invoice. However, use code ZZ only when indicating a final shipment. When REF01 is code ZZ, insert the letter Z in REF02. Use code VR to carry the seller's unique identification number.

**Reference Number** [010 A] 1 50 REF02 127

**Entity Identifier Code** [011 A] * 1 70 N101 98

- PR : Paying Office
- SE : Selling Party

**Name** [012 A] 1 70 N102 93

Use only when address of the Selling Party (N101 code SE) cannot be described using that party's CAGE Code (N103 code 33 and N104, the actual CAGE Code).

**Identification Code Qualifier** [013 A] * 1 70 N103 66

- 10 : DODAAC
- 33 : CAGE

Use code 10 when N101 is code PR, use code 33 when 101 is code SE.

**Identification Code** [014 A] 1 70 N104 67

Use actual DODAAC of Paying Office or Cage Code of Selling Party.

**Name** [015 A] 1 80 N201 93

Use only when address cannot be described using a code in the N1 segment.

**Name** [016 A] 1 80 N202 93

Use only when address cannot be described using a code in the N1 segment.

| TENDER DATA NAME | INDEX | Q | A | POS | REF DES | DE # | VALUE | DoD CONVENTION | DoD ReqDes |
|---|---|---|---|---|---|---|---|---|---|
| Address Information | [017 A] | | 1 | 90 | N301 | 166 | | Use only when address cannot be described using a code in the N1 segment. street name, suite, appartment or office number. For example: 10 Main Street, Suite 300.). | |
| Address Information | [018 A] | | 1 | 90 | N302 | 166 | | If needed, an additional 2nd line of address, use only when address cannot be described using a code in the N1 segment. | |
| City Name | [019 A] | | 1 | 100 | N401 | 19 | | City Name, use only when address cannot be described using a code in the N1 segment. | |
| State or Province Code | [020 A] | | 1 | 100 | N402 | 156 | | Two-character code for State. | |
| Postal Code | [021 A] | | 1 | 100 | N403 | 116 | | Zip Code. | |
| Terms Type Code | [022 A] | * | 1 | 130 | ITD01 | 336 | 16  - Prompt Payment Act | Use code 16 when invoice is subject to the fast pay provision of the Prompt Payment Act. | |
| Terms Discount Percent | [023 A] | | 1 | 130 | ITD03 | 338 | | Discount Percent. | |
| Terms Discount Days Due | [024 A] | | 1 | 130 | ITD05 | 351 | | Discount Days. | |
| Terms Net Days | [025 A] | | 1 | 130 | ITD07 | 386 | | | |
| Date/Time Qualifier | [026 A] | * | 1 | 140 | DTM01 | 374 | 011  - Shipped | | |

| Name | Ref | M | Max | Element | Code | Notes |
|---|---|---|---|---|---|---|
| Date | [027 A] | 1 | 140 | DTM02 | 373 | Actual Ship Date when date applies to entire invoice. |
| Assigned Identification | [028 A] | 2 | 10 | IT101 | 350 | REQUIRED   CLIN or SUBCLIN. |
| Quantity Invoiced | [029 A] | 2 | 10 | IT102 | 358 | |
| Unit of Measurement Code | [030 A] | 2 | 10 | IT103 | 355 | Use any code. |
| Unit Price | [031 A] | 2 | 10 | IT104 | 212 | Unit Price, as specified in the contract, of the CLIN or SUBCLIN carried in IT101. The extended amount for each line item (Quantity invoiced from IT102, Unit Price from IT104) will be calculated by the application program. |
| Product/Service ID Qualifier | [032 A] | * 2 | 10 | IT106 | 235 | FS - National Stock Number; Use code FS for National Stock Number. |
| Product/Service ID | [033 A] | 2 | 10 | IT107 | 234 | |
| Item Description Type | [034 A] | * 2 | 60 | PID01 | 349 | F - Free-Form; Use code F to satisfy the syntax. |
| Description | [035 A] | 2 | 60 | PID05 | 352 | Description of cited line or subline item. |
| Reference Number Qualifier | [036 A] | * 2 | 120 | REF01 | 128 | SI - Shipper's Identifying Number for Shipment; ZZ - Mutually Defined; Use code SI for Shipment Number and code ZZ for the Indicator when applicable to the entire invoice. However, use code ZZ only when indicating a final shipment. When REF01 is code ZZ, insert the letter Z in REF02. |
| Reference Number | [037 A] | 2 | 120 | REF02 | 127 | |
| Date/Time Qualifier | [038 A] | * 2 | 150 | DTM01 | 374 | 011 - Shipped |

| TENDER DATA NAME | INDEX | Q | A | POS | REF DES | DE # | VALUE | DoD CONVENTION | DoD ReqDes |
|---|---|---|---|---|---|---|---|---|---|
| Date | [039 A] | | 2 | 150 | DTM02 | 373 | | Actual Shipment Date for cited line or subline item. | |
| Total Invoice Amount | [040 A] | | 3 | 10 | TDS01 | 361 | | | |
| Transportation Method/Type Code | [041 A] | | 3 | 30 | CAD01 | 91 | | NOTE: A. Use any code. | |
| Routing | [042 A] | | 3 | 30 | CAD05 | 387 | | Insert number 1 to satisfy syntax requirement. B. Codes in DE 91 may have to be converted to DoD codes (see table at end of this implementation convention). | |
| Allowance or Charge Indicator | [043 A] | * | 3 | 40 | ITA01 | 248 | C | - Charge | |
| Allowance or Charge Method of Handling Code | [044 A] | * | 3 | 40 | ITA04 | 331 | 06 | - Charge to be Paid by Customer | |
| Allowance or Charge Total Amount | [045 A] | | 3 | 40 | ITA07 | 360 | | | |
| Number of Line Items | [046 A] | | 3 | 70 | CTT01 | 354 | | CTT01 will carry the accumulation of the number of IT1 segments contained in the transaction set. | |
| Number of Included Segments | [047 A] | | 3 | 80 | SE01 | 96 | | | |
| Transaction Set Control Number | [048 A] | | 3 | 80 | SE02 | 329 | | Control No, (same number will be found in ST02 in Header.) | |

# 10.7 DoD CONVENTIONS

## Overview

This chapter is the convention for the ASC X12 Transaction Set 810 (Version 003010) as used by the Department of Defense for accepting an invoice. It was derived from:

- Table 10.5-1, Data Element Cross-Reference Matrix that describes the discrete DoD data requirements for invoices.

- ASC X12 Transaction Set 810 Invoice.

A relational database management system was used to merge the Data Element Cross-Reference Matrix and a Transaction Set 810 database into the subset of 810 segments described in table 10.7-3 of this chapter.

## Purpose

This chapter contains all necessary information for a DoD trading partner to map and translate a Transaction Set 810. All trading partners who plan to exchange the Transaction Set 810 can use this document as a reference for the development of their EDI database/translator interface program.

## Contents

Three tables are included in this chapter.

- Table 10.7-1, ASC X12 Transaction Set 810 Segment Hierarchy describes the 810 segments as they appear in the ASC X12 Standards Dictionary.

- Table 10.7-2, DoD Model Transaction Set 810 Segment Hierarchy describes the subset of 810 segments used for sending commercial invoices.

- Table 10.7-3, Conventions is a detailed description of the Department of Defense conventions for transmitting Transaction Set 810. All segments identified in Table 10.7-2 are detailed in Table 10.7-3 by segment, position, and code value.

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# TABLE 10.7-1

## SEGMENT HIERARCHY

## ASC X12 TRANSACTION SET 810
## INVOICE (Version 003010)

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## ASC X12.xx Transaction Set810V310
## Transaction Set Name and Version
## Segment Hierarchy

### Table 1 - Header Area

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| USE | 10 | ST | Transaction Set Header | M | 1 | |
| USE | 20 | BIG | Beginning Segment for Invoice | M | 1 | |
| | 30 | NTE | Note/Special Instruction | F | 100 | |
| | 40 | CUR | Currency | O | 1 | |
| USE | 50 | REF | Reference Numbers | O | 12 | |
| | 60 | PER | Administrative Communications Contact | O | 3 | |
| USE | 70 | N1 | Name | O | 1 | N1\200 |
| USE | 80 | N2 | Additional Name Information | O | 2 | |
| USE | 90 | N3 | Address Information | O | 2 | |
| USE | 100 | N4 | Geographic Location | O | 1 | |
| | 110 | REF | Reference Numbers | O | 12 | |
| | 120 | PER | Administrative Communications Contact | O | 3 | |
| USE | 130 | ITD | Terms of Sale/Deferred Terms of Sale | O | 5 | |
| USE | 140 | DTM | Date/Time Reference | O | 10 | |
| | 150 | FOB | F.O.B. Related Instructions | O | 1 | |
| | 160 | PID | Product/Item Description | O | 200 | |
| | 170 | MEA | Measurements | O | 40 | |
| | 180 | PWK | Paperwork | O | 25 | |
| | 190 | PKG | Marking, Packaging, Loading | O | 25 | |
| | 200 | L7 | Tariff Reference | O | 1 | |

### Table 2 - Detail Area

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| USE | 10 | IT1 | Baseline Item Data (Invoice) | O | 1 | IT1\200000 |
| | 20 | CUR | Currency | O | 1 | |
| | 30 | IT3 | Additional Item Data | O | 5 | |
| | 40 | TXI | Tax Information | O | 10 | |
| | 50 | CTP | Pricing Information | O | 25 | |

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| | 59 | MEA | Measurements | O | 40 | |
| USE | 60 | PID | Product/Item Description | O | 1 | PID\1000 |
| | 70 | MEA | Measurements | O | 10 | |
| | 80 | PWK | Paperwork | O | 25 | |
| | 90 | PKG | Marking, Packaging, Loading | O | 25 | |
| | 100 | PO4 | Item Physical Details | O | 1 | |
| | 110 | ITD | Terms of Sale/Deferred Terms of Sale | O | 2 | |
| USE | 120 | REF | Reference Numbers | O | 1 | |
| | 130 | PER | Administrative Communications Contact | O | 5 | |
| | 140 | SDQ | Destination Quantity | O | 500 | |
| USE | 150 | DTM | Date/Time Reference | O | 10 | |
| | 160 | CAD | Carrier Detail | O | 1 | |
| | 170 | L7 | Tariff Reference | O | 1 | |
| | 180 | ITA | Allowance, Charge or Service | O | 1 | ITA\10 |
| | 190 | TXI | Tax Information | O | 10 | |
| | 200 | SLN | Subline Item Detail | O | 1 | SLN\1000 |
| | 210 | REF | Reference Numbers | O | 1 | |
| | 220 | PID | Product/Item Description | O | 1000 | |
| | 230 | ITA | Allowance, Charge or Service | O | 10 | |
| | 240 | N1 | Name | O | 1 | N1\200 |
| | 250 | N2 | Additional Name Information | O | 2 | |
| | 260 | N3 | Address Information | O | 2 | |
| | 270 | N4 | Geographic Location | O | 1 | |
| | 280 | REF | Reference Numbers | O | 12 | |
| | 290 | PER | Administrative Communications Contact | O | 3 | |

## Table 3 - Summary Area

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| USE | 10 | TDS | Total Monetary Value Summary | M | 1 | |
| | 20 | TXI | Tax Information | O | 10 | |
| USE | 30 | CAD | Carrier Detail | O | 1 | |
| USE | 40 | ITA | Allowance, Charge or Service | O | 1 | ITA\10 |

| | 50 | TXI | Tax Information | O | 10 |
|---|---|---|---|---|---|
| | 60 | ISS | Invoice Shipment Summary | O | 5 |
| USE | 70 | CTT | Transaction Totals | M | 1 |
| USE | 80 | SE | Transaction Set Trailer | M | 1 |

# TABLE 10.7-2

## SEGMENT HIERARCHY

## DoD MODEL FOR TRANSACTION SET 810 INVOICE

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## ASC X12.xx Transaction Set810V310
## Transaction Set Name and Version
## Segment Hierarchy

#### Table 1 - Header Area

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| USE | 10 | ST | Transaction Set Header | M | 1 | |
| USE | 20 | BIG | Beginning Segment for Invoice | M | 1 | |
| USE | 50 | REF | Reference Numbers | O | 12 | |
| USE | 70 | N1 | Name | O | 1 | N1\200 |
| USE | 80 | N2 | Additional Name Information | O | 2 | |
| USE | 90 | N3 | Address Information | O | 2 | |
| USE | 100 | N4 | Geographic Location | O | 1 | |
| USE | 130 | ITD | Terms of Sale/Deferred Terms of Sale | O | 5 | |
| USE | 140 | DTM | Date/Time Reference | O | 10 | |

#### Table 2 - Detail Area

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| USE | 10 | IT1 | Baseline Item Data (Invoice) | O | 1 | IT1\200000 |
| USE | 60 | PID | Product/Item Description | O | 1 | PID\1000 |
| USE | 120 | REF | Reference Numbers | O | 1 | |
| USE | 150 | DTM | Date/Time Reference | O | 10 | |

#### Table 3 - Summary Area

| | Pos No. | Seg ID | Name | Req Des | Use | Loop |
|---|---|---|---|---|---|---|
| USE | 10 | TDS | Total Monetary Value Summary | M | 1 | |
| USE | 30 | CAD | Carrier Detail | O | 1 | |
| USE | 40 | ITA | Allowance, Charge or Service | O | 1 | ITA\10 |
| USE | 70 | CTT | Transaction Totals | M | 1 | |
| USE | 80 | SE | Transaction Set Trailer | M | 1 | |

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# TABLE 10.7-3

## DoD 810 CONVENTION

### How To Read This Table

This table contains two sets of references. ASC X12 references are contained in the right-hand column. Government references are contained in the left-hand column except for codes lists which are included in the right-hand column.

### Government References

The left-hand and middle columns in Table 10.7-3 describe Department of Defense conventions.

● Left-hand column contains two general references.

> INDEX: is enclosed in brackets and corresponds to a specific INDEX from Table 10.5-1.

> INVOICE DATA NAME: Appears above the INDEX and corresponds to a specific DATA NAME from Table 10.5-1.

● Middle column: Contains a less-than sign to indicate where Department of Defense conventions vary from the ASC X12 convention.

To help the user determine the source data, the INDEX can be used to trace data elements back to Table 10.5-1.

### ASC X12 References

The right-hand column describes the ASC X12 conventions. The information included at the beginning of a segment description is standard ASC X12 information. The subheadings listed under Data Element Summary describe conventions for each data element in the segment.

> Ref Des, Data Element, Attributes: Three subheadings describe the format of the segment as prescribed by ASC X12.

> Name: Describes the ASC X12 data element and offers the standard definition. It also lists the specific code values the Department of Defense prescribes and may provide other Department of Defense information.

### How To Use This Table

This table can be used to identify the data contained in populated Transaction Set 810.

1. Identify a segment from a populated transaction set (See Appendix 10.C for examples of the 810).

2. Look up the segment in table 10.7-3.

3. Read the right-hand column to identify the Reference Designator (Ref.Des.). The Reference Designator combines the segment id and the data element position to form a single identifier.

4. Read the left-hand column immediately adjacent to the Reference Designator to find the discrete DATA NAME, INDEX, and DoD CONVENTION from Table 10.5-1 that is mapped to that Reference Designator. When multiple DATA NAMEs appear for a single Reference Designator, there is usually a code qualifier somewhere in the same segment that identifies the data.

Segment: **ST**     Transaction Set Header

Table: 1

Sequence: 10

Usage: M

Max Use: 1

Loop:

Purpose: To indicate the start of a transaction set and to assign a control number

Comment: A. The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| ST01 | 143 | **Transaction Set Identifier Code** | **M ID 3/3** |

Transaction Set Identifier Code
[001 A *]

The following comments provide mapping instructions for establishing a Commercial Invoice.

Code uniquely identifying a Transaction Set.

| Code | Definition |
|---|---|
| 810 | X12.2 Invoice |

| ST02 | 329 | **Transaction Set Control Number** | **M AN 4/9** |
|---|---|---|---|

Transaction Set Control
Number
[002 A ]

Control No, (same number will be found in SE02 in Summary).

Identifying control number assigned by the originator for a transaction set.

**Segment:** **BIG**     Beginning Segment for Invoice

**Table:** 1

**Sequence:** 20

**Usage:** M

**Max Use:** 1

**Loop:**

**Purpose:** To indicate the beginning of an invoice transaction set and to transmit identifying numbers and dates.

**Comment:** A. BIG07 is used only to further define the type of invoice when needed.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| BIG01 | 245 | Invoice Date | M | DT | 6/6 |

Invoice Issue Date.

**Invoice Date**
**[003 A ]**

Invoice Date, expressed as YYM-MDD.

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| BIG02 | 76 | Invoice Number | M | AN | 1/22 |

Identifying number assigned by issuer.

**Invoice Number**
**[004 A ]**

A unique number assigned by the Billing Party.

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| BIG03 | 323 | Purchase Order Date | O | DT | 6/6 |
| BIG04 | 324 | Purchase Order Number | O | AN | 1/22 |

Identifying number for Purchase Order assigned by the orderer/purchaser.

**Purchase Order Number**
**[005 A ]**

Procurement Instrument Identification Number, (PIIN).

| | | | | | |
|---|---|---|---|---|---|
| BIG05 | 328 | Release Number | O | AN | 1/30 |

Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.

**Release Number**
**[006 A ]**

*Call/order number.*

| | | | | | |
|---|---|---|---|---|---|
| BIG06 | 327 | Change Order Sequence Number | O | AN | 1/8 |

Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set.

**Change Order Sequence Number**
**[007 A ]**

*Modification Number, (SPIIN).*

| | | | | | |
|---|---|---|---|---|---|
| BIG07 | 640 | Transaction Type Code | O | ID | 2/2 |

Code specifying the type of transaction.

**Transaction Type Code**
**[008 A *]**

*Use code RE for a selling party generated request to withdraw, without processing, a previously submitted invoice.*

| Code | Definition |
|---|---|
| CN | Credit Invoice |
| CO | Corrected |
| DI | Debit Invoice |
| RE | Rebill |

Segment: **REF**     Reference Numbers
Table: 1
Sequence: 50
Usage: O
Max Use: 12
Loop:
Purpose: To specify identifying numbers.
Syntax Notes: 02 Either REF02 or REF03 is required.

## Data Element Summary

| Ref. Des. | Data Element | Name | | Attributes | |
|---|---|---|---|---|---|
| REF01 | 128 | Reference Number Qualifier | M | ID | 2/2 |

Code qualifying the Reference Number.

### Reference Number Qualifier
[009 A *]

NOTE: A. Use code SI for Shipment Number and code ZZ for the Indicator when applicable to the entire invoice. However, use code ZZ only when indicating a final shipment. When REF01 is code ZZ, insert the letter Z in REF02. When REF01 is the Payment System Code, use code PQ to indicate that Payment System Number is carried in REF02. Use code VR to carry the seller's unique identification number.

| Code | Definition |
|---|---|
| BL | Government Bill of Lading |
| BM | Bill of Lading Number |
| PQ | Payee Identification |
| SI | Shipper's Identifying Number for Shipment |
| VR | Vendor ID number |
| ZZ | Mutually Defined |

| REF02 | 127 | Reference Number | C | AN | 1/30 |
|---|---|---|---|---|---|

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

### Reference Number
[010 A ]

| REF03 | 352 | Description | C | AN | 1/80 |
|---|---|---|---|---|---|

Entity Identifier Code
[011 A *]

Name
[012 A ]

Use only when address of the Sell-
ing Party (N101 code SE) cannot be
described using that party's CAGE
Code (N103 code 33 and N104, the
actual CAGE Code).

| | |
|---|---|
| Segment: | **N1**    Name |
| Table: | 1 |
| Sequence: | 70 |
| Usage: | O |
| Max Use: | 1 |
| Loop: | N1/200 |
| Purpose: | To identify a party by type of organization, name and code |
| Comment: | A. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. |
| Syntax Notes: | 01 At least one of N102 or N103 must be present. |
| | 02 If either N103 or N104 is present, then the other is required. |

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| **N101** | 98 | **Entity Identifier Code** | M | ID | 2/2 |

Code identifying an organizational entity or a physical location.

| Code | Definition |
|---|---|
| PR | Paying Office |
| SE | Selling Party |

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| **N102** | 93 | **Name** | C | AN | 1/35 |

Free-form name.

Identification Code Qualifier
[013 A  *]

Use code 10 when N101 is code
PR, use code 33 when N101 is code
SE.

| N103 | 66 | Identification Code Qualifier | C | ID | 1/2 |

Code designating the system/method of code structure used for Identification Code (67).

| Code | Definition |
|------|------------|
| 10 | DODAAC |
| 33 | CAGE |

Identification Code
[014 A  ]

Use actual DODAAC of Paying Office or Cage Code of Selling Party.

| N104 | 67 | Identification Code | C | ID | 2/17 |

Code identifying a party.

|  |  |  |
|---|---|---|
| Segment: | **N2** | Additional Name Information |
| Table: | 1 | |
| Sequence: | 80 | |
| Usage: | O | |
| Max Use: | 2 | |
| Loop: | N1 | |
| Purpose: | To specify additional names or those longer than 35 characters in length | |

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| N201 | 93 | **Name** <br> Free-form name. | M  AN  1/35 |
| N202 | 93 | **Name** <br> Free-form name. | O  AN  1/35 |

**Name**
[015 A ]

Use only when address cannot be described using a code in the N1 segment.

**Name**
[016 A ]

Use only when address cannot be described using a code in the N1 segment.

Segment: **N3**      Address Information

Table: 1

Sequence: 90

Usage: O

Max Use: 2

Loop: N1

Purpose: To specify the location of the named party

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| N301 | 166 | Address Information<br>Address information | M AN 1/35 |
| N302 | 166 | Address Information<br>Address information | O AN 1/35 |

**Address Information**
**[017 A ]**

Use only when address cannot be described using a code in the N1 segment. (If used, carry items such as building number, street name, suite, appartment or office number. For example: 10 Main Street, Suite 300.).

**Address Information**
**[018 A ]**

If needed, an additional 2nd line of address, use only when address cannot be described using a code in the N1 segment.

|  |  |  |
|---|---|---|
| Segment: | N4 | Geographic Location |
| Table: | 1 | |
| Sequence: | 100 | |
| Usage: | O | |
| Max Use: | 1 | |
| Loop: | N1 | |
| Purpose: | To specify the geographic place of the named party | |
| Comment: | A. | A combination of either N401 through N404 (or N405 and N406) may be adequate to specify a location. |
| | B. | N402 is required only if city name (N401) is in the USA or Canada. |
| Syntax Notes: | 01 | At least one of N401 or N405 must be present. |
| | 02 | If N401 is present, then N402 is required. |
| | 03 | If either N405 or N406 is present, then the other is required. |

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| N401 | 19 | City Name | C AN 2/19 |
| | | Free-form text for city name. | |

City Name
[019 A ]

City Name, use only when address
cannot be described using a code
in the N1 segment.

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| N402 | 156 | State or Province Code | C ID 2/2 |
| | | Code (Standard State/Province) defined by appropriate governmental agencies. | |

State or Province Code
[020 A ]

Two-character code for State.

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| N403 | 116 | Postal Code | O ID 4/9 |
| | | Code defining international postal zone code excluding punctuation and blanks (zip code for United States). | |

Postal Code
[021 A ]

Zip Code.

| | | | | | |
|---|---|---|---|---|---|
| N404 | 26 | Country Code | O | ID | 2/2 |
| N405 | 309 | Location Qualifier | O | ID | 1/2 |
| N406 | 310 | Location Identifier | C | AN | 1/25 |

| | | |
|---|---|---|
| Segment: | **ITD** | Terms of Sale/Deferred Terms of Sale |
| Table: | 1 | |
| Sequence: | 130 | |
| Usage: | O | |
| Max Use: | 5 | |
| Loop: | | |
| Purpose: | To specify terms of sale. | |
| Comment: | A. | If the code in ITD01 is 04, then ITD09 is required and either ITD11 or ITD12 is required. If the code in ITD01 equals 05, then ITD06 or ITD07 is required. |
| Syntax Notes: | 01 | If ITD03 is present, then at least one of ITD04, ITD05, ITD13 is required. |
| | 02 | If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required. |
| | 03 | If ITD09 is present, then ITD10 or ITD11 is required. |

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| ITD01 | 336 | Terms Type Code | O | ID | 2/2 |

Code identifying type of payment terms.

**Terms Type Code**
**[022 A *]**

Use code 16 when invoice is subject to the fast pay provision of the Prompt Payment Act.

| Code | Definition |
|---|---|
| 16 | Prompt Payment Act |

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| ITD02 | 333 | Terms Basis Date Code | O | ID | 1/2 |
| ITD03 | 338 | Terms Discount Percent | O | R | 1/6 |

Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.

**Terms Discount Percent**
**[023 A ]**

Discount Percent.

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| ITD04 | 370 | Terms Discount Due Date | C | DT | 6/6 |

| | | | | | |
|---|---|---|---|---|---|
| ITD05 | 351 | Terms Discount Days Due | C | NO | 1/3 |

Number of days in the terms discount period by which payment is due if terms discount is earned.

**Terms Discount Days Due**
**[024 A ]**

Discount Days.

| | | | | | |
|---|---|---|---|---|---|
| ITD06 | 446 | Terms Net Due Date | O | DT | 6/6 |
| ITD07 | 386 | Terms Net Days | O | NO | 1/3 |

Number of days until total invoice amount is due (discount not applicable).

**Terms Net Days**
**[025 A ]**

| | | | | | |
|---|---|---|---|---|---|
| ITD08 | 362 | Terms Discount Amount | O | N2 | 1/10 |
| ITD09 | 388 | Terms Deferred Due Date | O | DT | 6/6 |
| ITD10 | 389 | Deferred Amount Due | C | N2 | 1/10 |
| ITD11 | 342 | Percent of Invoice Payable | C | R | 1/5 |
| ITD12 | 352 | Description | O | AN | 1/80 |
| ITD13 | 765 | Day of Month | C | NO | 1/2 |
| ITD14 | 107 | Payment Method Code | O | ID | 1/1 |

| | |
|---|---|
| **Segment:** | **DTM**   Date/Time Reference |
| **Table:** | 1 |
| **Sequence:** | 140 |
| **Usage:** | O |
| **Max Use:** | 10 |
| **Loop:** | |
| **Purpose:** | Tc specify pertinent dates and times |
| **Syntax Notes:** | 01 At least one of DTM02 or DTM03 must be present. |

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| DTM01 | 374 | Date/Time Qualifier | M  ID  3/3 |

Code specifying type of date or time, or both date and time.

| Code | Definition |
|---|---|
| 011 | Shipped |

Date/Time Qualifier
[026 A *]

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| DTM02 | 373 | Date | C  DT  6/6 |

Date (YYMMDD).

Date
[027 A ]

Actual Ship Date when date applies
to entire invoice.

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| DTM03 | 337 | Time | C  TM  4/4 |
| DTM04 | 623 | Time Code | O  ID  2/2 |

|  |  |
|---|---|
| Segment: | **IT1**    Baseline Item Data (Invoice) |
| Table: | 2 |
| Sequence: | 10 |
| Usage: | O |
| Max Use: | 1 |
| Loop: | IT1/200000 |
| Purpose: | To specify the basic and most frequently used line item data for the invoice and related transactions. |
| Comment: | A. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of ID's. |
|  | B. IT101 is the purchase order line item identification. |
|  | C. IT106 through IT125 provides for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU. |
| Syntax Notes: | 01 If IT106 is present, then IT107 is required. |
|  | 02 If IT108 is present, then IT109 is required. |
|  | 03 If IT110 is present, then IT111 is required. |
|  | 04 If IT112 is present, then IT113 is required. |
|  | 05 If IT114 is present, then IT115 is required. |
|  | 06 If IT116 is present, then IT117 is required. |
|  | 07 If IT118 is present, then IT119 is required. |
|  | 08 If IT120 is present, then IT121 is required. |
|  | 09 If IT122 is present, then IT123 is required. |
|  | 10 If IT124 is present, then IT125 is required. |

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| IT101 | 350 | Assigned Identification | O AN 1/6 |
|  |  | Alphanumeric characters assigned for differentia- |  |

tion within a transaction set.

**Asssigned Identification**
[028 A ] <

REQUIRED

CLIN or SUBCLIN.

| IT102 | 358 | **Quantity Invoiced** | M | R | 1/10 |

Number of units invoiced (supplier units).

**Quantity Invoiced**
[029 A ]

| IT103 | 355 | **Unit of Measurement Code** | M | ID | 2/2 |

Code identifying the basic unit of measurement.

**Unit of Measurement Code**
[030 A *]

Use any code.

| IT104 | 212 | **Unit Price** | M | R | 1/14 |

Price per unit of product, service, commodity, etc.

**Unit Price**
[031 A ]

Unit Price, as specified in the contract, of the CLIN or SUBCLIN carried in IT101. The extended amount for each line item (Quantity Invoiced from IT102, Unit Price from IT104) will be calculated by the application program.

| IT105 | 639 | **Basis of Unit Price Code** | O | ID | 2/2 |

| IT106 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 |

Code identifying the type/source of the descriptive number used in Product/Service ID (234).

**Product/Service ID Qualifier**
[032 A *]

Use code FS for National Stock Number.

| Code | Definition |
|------|------------|
| FS | National Stock Number |

Product/Service ID
[033 A  ]

| | | | | | |
|---|---|---|---|---|---|
| IT107 | 234 | Product/Service ID | C | AN | 1/30 |

Identifying number for a product or service.

| | | | | | |
|---|---|---|---|---|---|
| IT108 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT109 | 234 | Product/Service ID | C | AN | 1/30 |
| IT110 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT111 | 234 | Product/Service ID | C | AN | 1/30 |
| IT112 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT113 | 234 | Product/Service ID | C | AN | 1/30 |
| IT114 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT115 | 234 | Product/Service ID | C | AN | 1/30 |
| IT116 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT117 | 234 | Product/Service ID | C | AN | 1/30 |
| IT118 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT119 | 234 | Product/Service ID | C | AN | 1/30 |
| IT120 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT121 | 234 | Product/Service ID | C | AN | 1/30 |
| IT122 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT123 | 234 | Product/Service ID | C | AN | 1/30 |

| IT124 | 235 | Product/Service ID Qualifier | O | ID | 2/2 |
| IT125 | 234 | Product/Service ID | C | AN | 1/30 |

| | | |
|---|---|---|
| **Segment:** | **PID** | Product/Item Description |
| **Table:** | 2 | |
| **Sequence:** | 60 | |
| **Usage:** | O | |
| **Max Use:** | 1 | |
| **Loop:** | PID/1000 | |

**Purpose:** To describe a product or process in coded or free-form format

**Comment:**
  A. When PID01 is "F", PID04 is not used.

  B. Use PID03 to indicate the organization that publishes the code list being referred to.

  C. PID04 should be used for industry-specific product description codes.

  D. Use PID06 when necessary to refer to the product surface or layer being described in the segment.

**Syntax Notes:**
  04 If PID04 is present, then PID03 is required. At least one of PID04 or PID05 must be present.

## Data Element Summary

Item Description Type
[034 A  *]

Use code F to satisfy the syntax.

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| PID01 | 349 | Item Description Type | M | ID | 1/1 |

Code indicating the format of a description.

| Code | Definition |
|---|---|
| F | Free-Form |

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| PID02 | 750 | Product/Process Characteristic Code | O | ID | 2/3 |
| PID03 | 559 | Association Qualifier Code | C | ID | 2/2 |
| PID04 | 751 | Product Description Code | C | ID | 1/12 |

Description
[035 A ]

Description of cited line or subline
item.

| PID05 | 352 | Description | C | AN | 1/80 |

A free-form description to clarify the related data
elements and their content.

| PID06 | 752 | Surface/Layer/Position Code | O | ID | 2/2 |

Segment: **REF** Reference Numbers
Table: 2
Sequence: 120
Usage: O
Max Use: 1
Loop: IT1
Purpose: To specify identifying numbers.
Syntax Notes: 02 Either REF02 or REF03 is required.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|-----------|--------------|------|------------|
| REF01 | 128 | Reference Number Qualifier | **M** **ID** 2/2 |

Code qualifying the Reference Number.

**Reference Number Qualifier**
**[036 A  *]**

Use code SI for Shipment Number and code ZZ for the indicator when applicable to the entire invoice. However, use code ZZ only when indicating a final shipment. When REF01 is code ZZ, insert the letter Z in REF02.

| Code | Definition |
|------|------------|
| SI | Shipper's Identifying Number for Shipment |
| ZZ | Mutually Defined |

| REF02 | 127 | Reference Number | **C** **AN** 1/30 |
|-------|-----|------------------|-------------------|

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

**Reference Number**
**[037 A  ]**

| REF03 | 352 | Description | **C** **AN** 1/80 |
|-------|-----|-------------|-------------------|

Segment: **DTM** Date/Time Reference
Table: 2
Sequence: 150
Usage: O
Max Use: 10
Loop: IT1
Purpose: To specify pertinent dates and times
Syntax Notes: 01 At least one of DTM02 or DTM03 must be present.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|-----------|--------------|------|------------|---|---|
| DTM01 | 374 | Date/Time Qualifier | M | ID | 3/3 |

Code specifying type of date or time, or both date and time.

**Date/Time Qualifier**
**[038 A *]**

| Code | Definition |
|------|------------|
| 011 | Shipped |

| Ref. Des. | Data Element | Name | Attributes | | |
|-----------|--------------|------|------------|---|---|
| DTM02 | 373 | Date | C | DT | 6/6 |

Date (YYMMDD).

**Date**
**[039 A ]**

Actual Shipment Date for cited line or subline item.

| Ref. Des. | Data Element | Name | Attributes | | |
|-----------|--------------|------|------------|---|---|
| DTM03 | 337 | Time | C | TM | 4/4 |
| DTM04 | 623 | Time Code | O | ID | 2/2 |

Segment: **TDS**     Total Monetary Value Summary

Table: 3

Sequence: 10

Usage: M

Max Use: 1

Loop:

Purpose: To specify the total invoice discounts and amounts

Comment: A. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Total Invoice Amount
[040 A ]

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|-----------|--------------|------|-----------|---|---|
| TDS01 | 361 | Total Invoice Amount | M | N2 | 1/10 |
| | | Amount of invoice (including charges, less allowances) before terms discount (if discount is applicable). | | | |
| TDS02 | 390 | Amount Subject to Terms Discount | C | N2 | 1/10 |
| TDS03 | 391 | Discounted Amount Due | O | N2 | 1/10 |
| TDS04 | 362 | Terms Discount Amount | O | N2 | 1/10 |

Segment: **CAD**    Carrier Detail

Level: 3

Sequence: 30

Usage: O

Max Use: 1

Loop:

Purpose: To specify transportation details for the transaction

Semantic Notes: 01. At least one of CAD05 or CAD04 must be present.

02. If CAD07 is present, then CAD08 is required.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|-----------|--------------|------|------------|---|---|
| CAD01 | 91 | Transportation Method/Type Code | O | ID | 1/2 |
| | | Code specifying the method or type of transportation for the shipment. | | | |
| CAD02 | 206 | Equipment Initial | O | AN | 1/4 |
| CAD03 | 207 | Equipment Number | O | AN | 1/10 |
| CAD04 | 140 | Standard Carrier Alpha Code | C | ID | 2/4 |

Transportation Method/Type
Code
[041 A ]

Use any code.

Routing
[042 A ]

NOTE: A. Insert number 1 to satisy
syntax requirement.

B. Codes in DE 91 may have to be
converted to DoD codes (see table
at end of this implementation con-
vention).

| | | | | | |
|---|---|---|---|---|---|
| CAD05 | 387 | Routing | C | AN | 1/35 |

Free-form description of the routing or requested
routing for shipment, or the originating carrier's
identity.

| | | | | | |
|---|---|---|---|---|---|
| CAD06 | 368 | Shipment/Order Status Code | O | ID | 2/2 |
| CAD07 | 128 | Reference Number Qualifier | O | ID | 2/2 |
| CAD08 | 127 | Reference Number | O | AN | 1/30 |

Segment: **ITA**   Allowance, Charge or Service
Table: 3
Sequence: 40
Usage: O
Max Use: 1
Loop: ITA/10
Purpose: To specify allowances, charges or services
Comment: A. If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
B. If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
C. ITA12 is the quantity of free goods.
Syntax Notes: 02 If ITA02 is present, then at least one of ITA03, or ITA13 is required.
08 If ITA08 is present, then ITA09 is required.
10 If ITA10 is present, then ITA11 is required.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|-----------|--------------|------|------------|---|---|

**ITA01**   248   **Allowance or Charge Indicator**   M   ID   1/1

Allowance or Charge Indicator
[043 A *]

Code which indicates an allowance or charge for the service specified.

| Code | Definition |
|------|------------|
| C | Charge |

**ITA02**   559   **Association Qualifier Code**   O   ID   2/2

**ITA03**   560   **Special Services Code**   C   ID   2/10

**ITA04**   331   **Allowance or Charge Method of Handling Code**   M   ID   2/2

Allowance or Charge Method
of Handling Code
[044 A *]

Code indicating method of handling for an allowance or charge.

| Code | Definition |
|------|------------|
| 06 | Charge to be Paid by Customer |

Allowance or Charge Total
Amount
[045 A  ]

| | | | | | |
|---|---|---|---|---|---|
| ITA05 | 341 | Allowance or Charge Number | O | AN | 1/16 |
| ITA06 | 359 | Allowance or Charge Rate | O | R | 1/9 |
| ITA07 | 360 | Allowance or Charge Total Amount | O | N2 | 1/9 |

Total dollar amount for the allowance or charge.

| | | | | | |
|---|---|---|---|---|---|
| ITA08 | 378 | Allowance/ Charge Percent Qualifier | O | ID | 1/1 |
| ITA09 | 332 | Allowance or Charge Percent | C | R | 1/6 |
| ITA10 | 339 | Allowance or Charge Quantity | O | R | 1/10 |
| ITA11 | 355 | Unit of Measurement Code | C | ID | 2/2 |
| ITA12 | 380 | Quantity | O | R | 1/10 |
| ITA13 | 352 | Description | C | AN | 1/80 |
| ITA14 | 150 | Special Charge Code | O | ID | 3/3 |

| | |
|---|---|
| Segment: | **CTT**   Transaction Totals |
| Table: | 3 |
| Sequence: | 70 |
| Usage: | M |
| Max Use: | 1 |
| Loop: | |
| Purpose: | To transmit a hash total for a specific element in the transaction set |
| Comment: | A. This segment is intended to provide hash totals to validate transaction completeness and correctness. |
| Syntax Notes: | 01 If CTT03 is present, then CTT04 is required.<br>02 If CTT05 is present, then CTT06 is required. |

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes | | |
|---|---|---|---|---|---|
| CTT01 | 354 | Number of Line Items | M | NO | 1/6 |
| | | Total number of line items in the transaction set. | | | |
| CTT02 | 347 | Hash Total | O | R | 1/10 |
| CTT03 | 81 | Weight | O | R | 1/8 |
| CTT04 | 355 | Unit of Measurement Code | C | ID | 2/2 |
| CTT05 | 183 | Volume | O | R | 1/8 |
| CTT06 | 355 | Unit of Measurement Code | C | ID | 2/2 |
| CTT07 | 352 | Description | O | AN | 1/80 |

**Number of Line Items**
**[046 A ]**

CTT01 will carry the accumulation of the number of IT1 segments contained in the transaction set.

Segn:ent: **SE**     Transaction Set Trailer

Table: 3

Sequence: 80

Usage: M

Max Use: 1

Loop:

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Comment: A. SE is the last segment of each transaction set.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| SE01 | 96 | Number of included Segments | M NO 1/6 |
| | | Total number of segments included in a transaction set including ST and SE segments. | |
| SE02 | 329 | Transaction Set Control Number | M AN 4/9 |
| | | Identifying control number assigned by the originator for a transaction set. | |

Number of Included Segments
[047 A ]

Transaction Set Control
Number
[048 A ]

Control No, (same number will be
found in ST02 in Header.)

# 10.C Examples - X12 Transaction Set 810 Invoice

This appendix contains an example of Transaction Set 810 as it is used to transmit invoice information to a DoD payment center, the Defense Finance and Accounting Service - Columbus (DFAS).

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# Example - Invoice information from Billing Party to DFAS using ANSI X12 810

| | |
|---|---|
| ST*810*00001 n/l | Transaction set header and control number |
| BIG*920527*123456**DAAJ9992C2468*0005*03*DI n/l | Beginning segment with invoice date and number; contract, call, and modification numbers |
| REF*SI*ABC123 n/l | Shipment number |
| REF*Z7.*Z n/l | Final shipment indicator |
| REF*BL*135792468 n/l | GBL number |
| REF*VR*ABC01 n/l | Vendor ID number |
| N1*SE**33*12345 n/l | CAGE code of selling (invoicing) party |
| N1*PR**10*24680 n/l | DODAAC of paying office |
| ITD*16**2**10**30 n/l | Fast payment indicator and terms of discount: 2% ten days, net 30 days |
| DTM*011*920527 n/l | Shipment date |
| IT1*0001*10*EA*20.00 n/l | Line item 0001: 10 items @ $20 each |
| PID*F****WIDGET n/i | Text description of the line item: a widget |
| TDS*200.00 n/l | Total invoice amount |
| CAD*A****1 n/l | Transportation method code |
| ITA*C***06***25.00 n/l | Transportation charge |
| CTT*1 n/l | Number of IT1 segments |
| SE*17*00001 n/l | Transaction set trailer with number of segments (17) and control number |

NOTE: ALL NUMBERS ARE NOTIONAL AND USED FOR ILLUSTRATION PURPOSES ONLY.

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# 10.F Additional DoD Code Lists

This appendix contains no additional DoD code lists .

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**6. AUTHOR(S)**

Stephen Luster
William T. James

**7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)**

Logistics Management Institute
6400 Goldsboro Road
Bethesda, MD 20817-5886

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This is an Electronic Data Interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) will use to accept a commercial invoice using the ASC X12 Transaction Set 810 Invoice (003010).

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Electronic Data Interchange; EDI; DoD EDI Convention: Electronic Commerce; ANSI X12; X12; electronic standards; electronic business standards; computer-to-computer exchange of data; electronic documents; electronic records; paperless environment; conventions

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